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			TARGET POINT ABHIJAY - AITS NEE	T - 2024
Test	Date	Physics	Chemistry	Biology
			ABHIJAY - NEET - PART TESTS	
Part Test - 1 Class - 11	15-01-2024	Units and Measurements. Units of measurements, System of Units, S I Units, fundamental and derived units, least count, significant figures, Errors in measurements, Dimensions of Physics quantities, dimensional analysis, and its applications. Motion in a Straight Line The frame of reference, motion in a straight line, Position- time graph, speed and velocity: Uniform and non-uniform motion, average speed and instantaneous velocity, Uniformly accelerated motion, Velocity-time, position- time graph, relations for uniformly accelerated motion. Motion in a Plane Scalars and Vectors, Vector, Addition and subtraction, scalar and vector products, Unit Vector, Resolution of a Vector, Relative Velocity, Projectile Motion, Uniform Circular Motion.	Matter and its nature, Dalton's atomic theory: Concept of atom, molecule, element, and compound: Laws of chemical combination; Atomic and molecular masses, mole concept, molar mass, percentage composition, empirical and molecular formulae: Chemical equations and stoichiometry. Structure of Atom Nature of electromagnetic radiation, photoelectric effect; Spectrum of the hydrogen atom. Bohr model of a hydrogen atom - its postulates, derivation of the relations for the energy of the electron and radii of the different orbits, limitations of Bohr's model: Dual nature of matter, de Broglie's relationship. Heisenberg uncertainty principle. Elementary ideas of quantum mechanics, quantum mechanics, the quantum mechanical model of the atom, its important features. Concept of atomicorbitals as one-electron wave functions: Variation of Ψ and Ψ² with r for 1s and 2s orbitals; various quantum numbers (principal, angular momentum, and magnetic quantum numbers) and their significance; shapes of s, p, and d - orbitals, electron spin and spin quantum number: Rules for filling electrons in orbitals - Aufbau principle. Pauli's exclusion principle and Hund's rule, electronic configuration ofelements, extra stability of half-filled and completely filled orbitals.	The Living World What is living?; Biodiversity; Need for classification;; Taxonomy & Systematics; Concept of species and taxonomical hierarchy; Binomial nomenclature; Biological Classifications Five kingdom classification; salient features and classification of Monera; Protista and Fungi into major groups; Lichens; Viruses and Viroids. Plant Kingdom Salient features and classification of plants into major groups-Algae, Bryophytes, Pteridophytes, Gymnosperms (three to five salient and distinguishing features and at least two examples of each category); Animal Kingdom Salient features and classification of animals- non-chordate up to phyla level and chordate up to classes level (three to five salient features and at least two examples).



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		Laws of Motion	Chemical Bonding and Molecular Structure	Morphology of Flowering Plants
		Force and inertia, Newton's First	Kossel - Lewis approach to chemical bond	Morphology and modifications; inflorescence- cymose and recemose,
		law of motion, Newton's Second	formation, the concept of ionic and covalent	flower, fruit and seed (To be dealt along with the relevant practical of
		Law of motion, Newton's Third	bonds.	the Practical Syllabus)
		Law of motion, Equilibrium of	Ionic Bonding: Formation of ionic bonds,	Family (malvaceae, Cruciferae, leguminoceae, compositae. graminae).
		concurrent forces, Static and	factors affecting the formation of ionic bonds:	
		Kinetic friction, laws of friction,	calculation of lattice enthalpy.	Anatomy of Flowering Plants
		rolling friction.	Covalent Bonding: Concept of	Tissues; Anatomy and functions of different parts of flowering plants:
		Dynamics of uniform circular	electronegativity. Fajan's rule, dipole moment:	Root, stem, leaf,
		motion, centripetal force and its	Valence Shell Electron Pair Repulsion (VSEPR	
		applications, Vehicle on a level) theory and shapes of simple molecules.	Structural Organisation In Animals
		circular road, Vehicle on a banked	Quantum mechanical approach to covalent	Animal tissues; Morphology, anatomy and functions of different
		road.	bonding: Valence bond theory - its important	systems(digestive, circulatory, respiratory, nervous and reproductive) of
Part Test - 2	10.01.2024		features, the concept of hybridization	an insect(Frog). (Brief account only)
Class - 11	19-01-2024	Work, Power and Energy	involving s,p, and d orbitals; Resonance.	
		Work done by a constant force		
		and a variable force; kinetic and	Molecular Orbital Theory - Its important	
		potential energies, work-energy	features. LCAOs, types of molecular	
		theorem, power, The potential	orbitals (bonding, antibonding), sigma and	
		energy of spring, conservation of	pi-bonds, molecular orbital electronic	
		mechanical energy, conservative	configurations of homonuclear diatomic	
		and non-conservative forces;	molecules, the concept of bond order, bond	
		motion in a vertical circle.	length, and bond energy. Elementary idea of	
			metallic bonding. Hydrogen bonding and its	
			applications.	
			Thermodynamics	
			Fundamentals of thermodynamics: System	
			and surroundings, extensive and intensive	
			properties, state functions, types of processes.	
			The first law of thermodynamics - Concept of	
			work, heat internal energy and enthalpy, heat	
			capacity, molar heat capacity; Hess's law of	
			constant heat summation; Enthalpies of bond	
			dissociation, combustion, formation,	
			atomization, sublimation, phase transition,	
			hydration, ionization, and solution.	
			The second law of thermodynamics - Spontaneity of processes: ΔS of	



			the universe and ΔG of the system as criteria for spontaneity. $\Delta G^{\circ}(Standard Gibbs energy change)$ and equilibrium constant.	
Part Test - 3 Class - 11	25-01-2024	Motion of System of Particles and Rigid Body Centre of the mass of a two-particle system, Centre of the mass of a rigid body, Momentum, Impulses, Law of conservation of linear momentum and its applications, Elastic and inelastic collisions in one and two dimensions. Basic concepts of rotational motion; moment of a force; torque, angular momentum, conservation of angular momentum and its applications; The moment of inertia, the radius of gyration, values of moments of inertia for simple geometrical objects, parallel and perpendicular axes theorems and their applications, Equilibrium of rigid bodies, rigid body rotation and equations of rotational motion, comparison of linear and rotational motions. Gravitation The universal law of gravitation, Acceleration due to gravity and its variation with altitude and depth, Kepler's law of planetary motion, Gravitational potential energy; gravitational potential, Escape velocity, Motion of satellite, orbital velocity, Time period and energy of satellite.	Equilibrium Meaning of equilibrium, the concept of dynamic equilibrium. Equilibria involving physical processes: Solid-liquid, liquid - gas and solid-gas equilibria. Henry's law. General characteristics of equilibrium involving physical processes. Equilibrium involving chemical processes: Law of chemical equilibrium involving chemical processes: Law of chemical equilibrium, equilibrium constants (K_p and K_c) and their significance, the significance of ΔG and ΔG° in chemical equilibrium, factors affecting equilibrium concentration, pressure, temperature, the effect of catalyst; Le Chatelier's principle. Ionic equilibrium: Weak and strong electrolytes, ionization of electrolytes, various concepts of acids and bases (Arrhenius. Bronsted - Lowry and Lewis) and their ionization, acid-base equilibria (including multistage ionization) and ionization constants, ionization of water. pH scale, common ion effect, hydrolysis of salts and pH of their solutions, the solubility of sparingly soluble salts and solubility' products, buffer solutions. Redox Reactions Electronic concepts of oxidation and reduction, redox reactions, oxidation number, rules of assigning oxidation number, balancing of redox reactions.	Cell-The Unit Of Life Cell theory and cell as the basic unit of life; Structure of prokaryotic and eukaryotic cell; Plant cell and animal cell; Cell envelope, cell membrane, cell wall; Cell organelles- structure and function; Endomembrane system-endoplasmic reticulum. Golgi bodies, lysosomes, vacuoles; mitochondria, ribosomes, plastids, micro bodies; Cytoskeleton, cilia,flagella, centrioles (ultra structure and function); Nucleus-nuclear membrane, chromatin, nucleolus. Biomolecules Chemical constituents of living cells: Biomolecules-structure and function of proteins, carbodydrates. lipids, nucleic acids; Enzymes-types, properties, enzyme action, classification, and nomenclature of enzymes. Cell Cycle & Cell Division B Cell division: Cell cycle, mitosis, meiosis and their significance.



Part Test - 4 Class - 11	

31-01-2024

Mechanical Properties of Solids

Elastic behaviour, Stress-strain relationship, Hooke's Law, Young's modulus, bulk modulus, modulus of rigidity.

Mechanical properties of Fluids

Pressure due to a fluid column; Pascal's law and its applications. Effect of gravity on fluid pressure. Viscosity. Stokes' law. terminal velocity, streamline, and turbulent flow. critical velocity, Bernoulli's principle and its applications. Surface energy and surface tension, angle of contact, excess of pressure across a curved surface, application of surface tension - drops, bubbles, and capillary rise.

Thermal Properties of Matter

Heat, temperature, thermal expansion; specific heat capacity, calorimetry; change of state, latent heat. Heat transfer, conduction, convection, and radiation.

Thermodynamics

Thermal equilibrium, zeroth law of thermodynamics, the concept of temperature. Heat, work, and internal energy. The first law of thermodynamics, isothermal and adiabatic processes. The second law of thermodynamics: reversible and irreversible processes.

Kinetic Theory of Gases

Equation of state of a perfect gas, Work done on compressing a gas, Kinetic theory of gases - assumptions, the concept of pressure. Kinetic interpretation of temperature: RMS speed of gas molecules: Degrees of freedom. Law of equipartition of energy and applications to specific heat capacities of gases; Mean free path. Avogadro's number.

Organic Chemistry - Some Basic Principles and Techniques

Purification - Crystallization, sublimation, distillation, differential extraction, and chromatography - principles and their applications.

Qualitative analysis - Detection of nitrogen, Sulphur, phosphorus, and halogens.

Quantitative analysis (basic principles only) - Estimation of carbon, hydrogen, nitrogen, halogens, Sulphur, phosphorus.

Calculations of empirical formulae and molecular formulae: Numerical problems in organic quantitative analysis.

Tetravalency of carbon: Shapes of simple molecules - hybridization (s and p): Classification of organic compounds based on functional groups; and those containing halogens, oxygen, nitrogen, and sulphur; Homologous series: Isomerism - structural and stereoisomerism.

Nomenclature (Trivial and IUPAC)

Covalent bond fission - Homolytic and heterolytic: free radicals, carbocations, and carbanions; stability of carbocations and free radicals, electrophiles, and nucleophiles.

Electronic displacement in a covalent bond

- Inductive effect, electromeric effect, resonance, and hyperconjugation.

Common types of organic reactions- Substitution, addition, elimination, and rearrangement.

Hydrocarbons

Classification, isomerism. IUPAC nomenclature, general methods of preparation, properties, and reactions.

Alkanes - Conformations: Sawhorse and Newman projections (of ethane): Mechanism of halogenation of alkanes.

Alkenes - Geometrical isomerism: Mechanism of electrophilic addition: addition of hydrogen, halogens, water, hydrogen halides (Markownikoffs and peroxide effect); Ozonolysis and polymerization. Alkynes - Acidic character: Addition of hydrogen, halogens, water, and hydrogen halides: Polymerization.

Photosynthesis in Higher Plants

Photosynthesis: Photosynthesis as a means of Autotrophic nutrition; Siteof photosynthesis take place; pigments involved in Photosynthesis (Elementary idea); Photochemical and biosynthetic phases of photosynthesis; Cyclic and non cyclic and photophosphorylation; Chemiosmotic hypothesis; Photorespiration C3 and C4 pathways; Factors affecting photosynthesis.

Respiration In Plants

Respiration: Exchange gases; Cellular respiration-glycolysis, fermentation (anaerobic), TCA cycle and electron transport system(aerobic); Energy relations- Number of ATP molecules generated; Amphibolic pathways; Respiratory quotient.

Plant Growth and Development

Plant growth and development; Seed germination; Phases of Plant growth and plant growth rate; Conditions of growth; Differentiation, dedifferentiation and redifferentiation; Sequence of developmental process in a plant cell; Growth regulators- auxin, gibberellin, cytokinin,ethylene. ABA;



Part Test - 5 Class - 11	05-02-2024	Oscillations Oscillations and periodic motion - time period, frequency, displacement as a function of time. Periodic functions. Simple harmonic motion (S.H.M.) and its equation; phase: oscillations of a spring -restoring force and force constant: energy in S.H.M Kinetic and potential energies; Simple pendulum - derivation of expression for its time period. Waves Longitudinal and transverse waves, speed of travelling wave. Displacement relation for a progressive wave. Principle of superposition of waves, reflection of waves. Standing waves in strings and organ pipes, fundamental mode and harmonics. Beats.	Classification of Elements and Periodicity in Properties Modern periodic law and present form of the periodic table. s, p, d and f block elements, periodic trends in properties of elements atomic and ionic radii, ionization enthalpy, electron gain enthalpy, valence, oxidation states, and chemical reactivity. Some p-Block Elements (Group 13 and 14): General Introduction: Electronic configuration and general trends in physical and chemical properties of elements across the periods and down the groups; unique behaviour of the first element in each group.	Breathing and Exchange of Gases Respiratory organs in animals (recall only); Respiratory system in humans; Mechanism of breathing and its regulation in humans-Exchange of gases, transport of gases and regulation of respiratory Respiratory volumes; Disorders related to respiration-Asthma, Emphysema, Occupational respiratory disorders. Body Fluids & Circulation Composition of blood, blood groups, coagulation of blood; Composition of lymph and its function; Human circulatory system-Structure of human heart and blood vessels; Cardiac cycle, cardiac output. ECG, Double circulation; Regulation of cardiac activity; Disorders of circulatory system-Hypertension, Coronary artery disease. Angina pectoris, Heart failure. Excretory Products & Their Elimination Modes of excretion- Ammonotelism, ureotelism, uricotelism; Human excretory system-structure and fuction; Urine formation, Osmoregulation; Regulation of kidney function-Renin-angiotensin, Atrial Natriuretic Factor, ADH and Diabetes insipidus; Role of other organs in excretion; Disorders; Uraemia. Renal failure. Renal calculi, Nephritis; Dialysis and artificial kidney. Locomotion & Movement Types of movement- ciliary, flagellar, muscular; Skeletal muscle- contractile proteins and muscle contraction; Skeletal system and its functions (To be dealt with the relevant practical of Practical syllabus); Joints; Disorders of muscular and skeletal system-Myasthenia gravis. Tetany. Muscular dystrophy. Arthritis, Osteoporosis, Gout. Neural Control and Coordination Neuron and nerves; Nervous system in human central nervous system, peripheral nervous system and visceral nervous system; Generation and conduction of nerve impulse; Chemical Coordination and Integration Endocrine glands and hormones; Human endocrine system-Hypothalamus, Pituitary, Pineal. Thyroid, Aprathyroid, Adrenal, Pancreas. Gonads; Mechanism of hormone action (Elementary Idea); Role of hormones as messengers and regulators, Aronmegaly, Cretinism, goiter, exopthalmic goiter, diabetes, Addison's disease). (Imp:

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Part Test - 6 Class - 12	10-02-2024	Electric Charges and Fields Electric charges: Conservation of charge. Coulomb's law forces between two point charges, forces between multiple charges: superposition principle and continuous charge distribution. Electric field: Electric field due to a point charge, Electric field lines. Electric dipole, Electric field due to a dipole. Torque on a dipole in a uniform electric field Electric flux, Gauss's law and its applications to find field due to infinitely long uniformly charged straight wire, uniformly charged infinite plane sheet, and uniformly charged thin spherical shell. Electrostatic Potential and Capacitance Electric dipole and system of charges, potential difference, electric dipole and system of charges, potential energy of a system of two point charges and of electric dipole in an electrostatic field. Conductors and insulators. Dielectrics and electric polarization, capacitors and capacitances, the combination of capacitors in series and parallel, capacitance of a parallel plate capacitor with and without dielectric medium between the plates. Energy stored in a capacitor.	Solutions Different methods for expressing the concentration of solution - molality, molarity, mole fraction, percentage (by volume and mass both), the vapour pressure of solutions and Raoult's Law - Ideal and non-ideal solutions, vapour pressure - composition, plots for ideal and non-ideal solutions; Colligative properties of dilute solutions - a relative lowering of vapour pressure, depression of freezing point, the elevation of boiling point and osmotic pressure; Determination of molecular mass using colligative properties; Abnormal value of molar mass, van't Hoff factor and its significance. Electrochemistry Electrolytic and metallic conduction, conductance in electrolytic solutions, molar conductivities and their variation with concentration; Kohlrausch's law and its applications. Electrochemical cells – Electrolytic and Galvanic Cells, different types of electrodes, electrode potentials including standard electrode potential, half-cell and cell reactions, emf of a Galvanic cell and its measurement. Nernst equation and its applications. Relationship between cell potential and Gibbs energy change. Dry Cell and lead accumulator, Fuel Cells.	Sexual Reproduction In Flowering Plants Flower structure; Development of male and female gametophytes; Pollination-types, agencies and examples; Outbreeding devices; Pollen- Pistil interaction; Double fertilization; Post fertilization events- Development of endosperm and embryo. Development of seed and formation of fruit; Special modes- apomixis, parthenocarpy, polyembryony; Significance of seed and fruit formation. Human Reproduction Male and female reproductive systems: Microscopic anatomy of testis and ovary; Gametogenesis-spermatogenesis & oogenesis; Menstrual cycle; Fertilization, embryo development upto blastocyst formation, implantation; Pregnancy and placenta formation (Elementary idea); Parturition (Elementary idea); Lactation (Elementary idea). Reproductive Health Need for reproductive health and prevention of sexually transmitted diseases (STD); Birth control-Need and Methods, Contraception and Medical Termination of Pregnancy (MTP); Amniocentesis; Infertility and assisted reproductive technologies - IVF, Z1FT, GIFT (Elementary idea for general awareness).
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Current Electricity Electric current. Drift velocity, mobility and their relation with electric current. Ohm's law. Electrical resistance. V-I characteristics of ohmic and non-ohmic conductors. Electrical energy and power' Electrical resistance or conductivity. Series and parallel combinations of resistance. Temperature dependence of resistance. Internal resistance, potential difference and emf of a cell, a combination of cells in series and parallel. Kirchhoff's laws and their applications. Wheatstone bridge. Chemical Kinetics Rate of a chemical reaction, factors affecting the rate of reactions: concentration, temperature, pressure and catalyst; elementary and complex reactions, order and molecularity of reactions, rate law, rate constant and its units, differential and integral form of zero and first order reactions, their characteristics and half-lives, the effect of temperature on the rate of reactions. Arrhenius theory. activation energy and its calculation, collision theory of bimolecular gaseous reactions (no derivation). Principles of Inheritance and Variation Mendelian Inheritance; Oc-dominance, Co-dominance, Co-domina
with electric current. Ohm's law. Electrical resistance. V-l characteristics of ohmic and non-ohmic conductors. Electrical energy and power' Electrical resistivity and conductivity. Series and parallel combinations of resistance. Temperature dependence of resistance. Internal resistance, potential difference and emf of a cell, a combination of cells in series and parallel. Kirchhoff's laws and their
characteristics of ohmic and non-ohmic conductors. Electrical energy and power' Electrical resistivity and conductivity. Series and parallel combinations of resistors; Temperature dependence of resistance. Internal resistance, potential difference and emf of a cell, a combination of cells in series and parallel. Kirchhoff's laws and their complex reactions, order and molecularity of reactions, rate law, rate constant and its units, differential and integral form of zero and first conductivity. Series and parallel combinations of resistors; Temperature dependence of resistance, potential difference and emf of a cell, a combination of cells in series and parallel. Kirchhoff's laws and their
characteristics of ohmic and non-ohmic conductors. Electrical energy and power' Electrical resistivity and conductivity. Series and parallel combinations of resistors; Temperature dependence of resistance. Internal resistance, potential difference and emf of a cell, a combination of cells in series and parallel. Kirchhoff's laws and their
Electrical energy and power' Electrical resistivity and conductivity. Series and parallel combinations of resistors; Temperature dependence of resistance, potential difference and emf of a cell, a combination of cells in series and parallel. Kirchhoff's laws and their constant and its units, differential and integral form of zero and first order reactions, their characteristics and half-lives, the effect of temperature on the rate of reactions. Arrhenius theory, activation energy and power' Electrical resistivity and constant and its units, differential and integral form of zero and first order reactions, their characteristics and half-lives, the effect of temperature on the rate of reactions. Arrhenius theory, activation energy and power' Electrical resistivity and constant and its units, differential and integral form of zero and first order reactions, their characteristics and half-lives, the effect of temperature on the rate of reactions. Arrhenius theory, activation energy and power' Electrical resistivity and constant and its units, differential and integral form of zero and first order reactions, their characteristics and half-lives, the effect of temperature on the rate of reactions. Arrhenius theory, activation energy and power's energy of inheritance; Chromosomes and genes; Sex determination-In humans, birds, honey bee; Linkage and crossing of Sex linked inheritance-Haemophilia, Colour blindness; Mendelian disorders in humans-Thalassemia; Chromosome theory of inheritance; Chromosomes and genes; Sex determination-In humans, birds, honey bee; Linkage and crossing of Sex linked inheritance-Haemophilia, Colour blindness; Mendelian disorders in humans-Thalassemia; Chromosome theory of inheritance; Chromosomes and genes; Sex determination-In humans, birds, honey bee; Linkage and crossing of Sex linked inheritance-Haemophilia, Colour blindness; Mendelian disorders in humans-Thalassemia; Chromosome theory of inheritance; Chromosome theory of inheritance; Chromosome theory of inheritance; Chromosome theory of
conductivity. Series and parallel combinations of resistors; Temperature dependence of resistance. Internal resistance, potential difference and emf of a cell, a combination of cells in series and parallel. Kirchhoff's laws and their order reactions, their characteristics and half-lives, the effect of temperature on the rate of reactions. Arrhenius theory. activation energy and its calculation, collision theory of bimolecular gaseous reactions (no derivation). determination-In humans, birds, honey bee; Linkage and crossing of temperature on the rate of reactions. Arrhenius theory. activation energy and its calculation, collision theory of bimolecular gaseous reactions (no derivation). Down's syndrome, Turner's and Klinefelter's syndromes.
Temperature dependence of resistance. Internal resistance, potential difference and emf of a cell, a combination of cells in series and parallel. Kirchhoff's laws and their temperature on the rate of reactions. Arrhenius theory. activation energy and its calculation, collision theory of bimolecular gaseous reactions (no derivation). Sex linked inheritance-Haemophilia, Colour blindness; Mendelian disorders in humans-Thalassemia; Chromosomal disorders in humans-Thalas
potential difference and emf of a cell, a combination of cells in series and parallel. Kirchhoff's laws and their and its calculation, collision theory of bimolecular gaseous reactions (no derivation). disorders in humans-Thalassemia; Chromosomal disorders in humans-Thalassemia; Chromosoma
in series and parallel. Kirchhoff's laws and their derivation). Down's syndrome, Turner's and Klinefelter's syndromes.
applications. Wheatstone bridge. Metre Bridge.
Haloalkanes and Haloarenes
Moving Charges and Magnetism General methods of preparation, properties, and reactions; Nature of C- Molecular Basis Of Inheritance
Riot = Sayart law and its application to current carrying vi and its
Part Test - 7 14-02-2024 circular loop Ampere's law and its applications to infinitely
Class - 12 Uses; Environmental effects of chloroform, iodoform freons and DDT. Uses; Environmental effects of chloroform, iodoform freons and DDT. Transcription, genetic code, translation; Gene expression and regul
moving charge in uniform magnetic and electric fields. Aromatic hydrocarbons – Nomenclature, benzene – structure and Lac Operon; Genome and human genome project; DNA finger prir
Force on a current-carrying conductor in a uniform aromaticity: Mechanism of electrophilic substitution: halogenation, protein biosynthesis.
magnetic field. The force between two parallel currents nitration.
carrying conductors definition of ampere Torque Friedel - Craft's alkylation and acylation directive influence of the
experienced by a current loop in a uniform magnetic field: functional group in monosubstituted benzene. Evolution Evolution
Moving coil galvanometer, its sensitivity, and conversion to Origin of life; Biological evolution and evidence for biological evo
ammeter and voltmeter. from Paleontology, comparative anatomy, embryology and molecu
evidence); Darwin's contribution. Modem Synthetic theory of Evo
Mechanism of evolution Variation (Mutation and Recombination)
Natural Selection with examples, types of natural selection; Gene f
and genetic drift; Hardy-Weinberg's principle; Adaptive Radiation
Human evolution.
Transact evolution.



		Magnetism and Matter	Alcohols, Phenols and Ethers	Human Health & Diseases
		Current loop as a magnetic dipole and its magnetic dipole moment. Bar magnet as an equivalent solenoid. magnetic	Alcohols: Identification of primary, secondary, and tertiary alcohols: mechanism of dehydration.	Health and Disease; Pathogens; parasites causing human diseases (Malaria. Filariasis, Ascariasis. Typhoid, Pneumonia, common cold,
		field lines; Magnetic field due to a magnetic dipole (bar magnet) along its axis and perpendicular to its axis. Torque on a magnetic dipole in a uniform Magnetic field. Para-,	Phenols: Acidic nature, electrophilic substitution reactions: halogenation, nitration and sulphonation. Reimer - Tiemann reaction.	amoebiasis, ring worm, dengue, chikungunya); Basic concepts of immunology-vaccines; Cancer, HIV and AIDS; Adolescence, drug and alcohol abuse. Tobacco abuse
		dia- and ferromagnetic substances with examples, effect of	Ethers: Structure.	arconor abuse. Tobacco abuse
		temperature on magnetic properties.		Microbes In Human Welfare
		Flacture and Judget	Aldehyde, Ketones and Carboxylic Acids	In household food processing, industrial production, sewage treatment,
		Electromagnetic Induction Faraday's law. Induced emf and current. Lenz's Law, Eddy	Nature of carbonyl group; Nucleophilic addition to >C=O group,	energy generation and as biocontrol agents and biofertilizers.
Part Test - 8		currents. Self and mutual inductance	relative reactivities of aldehydes and ketones; Important reactions such	
Class - 12	19-117-71174		as - Nucleophilic addition reactions (addition of HCN. NH ₃ , and its derivatives), Grignard reagent; oxidation: reduction (Wolf Kishner and	
		Alternating Current Peak and RMS value of alternating current/ voltage:	Clemmensen); the acidity of a-hydrogen. aldol condensation,	
		reactance and impedance: LCR series circuit, resonance:	Cannizzaro reaction. Haloform reaction. Chemical tests to distinguish	
		power in AC circuits, wattless current. AC generator and	between aldehydes and Ketones.	
		transformer,	Carboxylic Acids	
		Electromagnetic Waves.	Acidic strength and factors affecting it	
		Displacement current, Electromagnetic waves and their		
		characteristics, Transverse nature of electromagnetic waves,		
		Electromagnetic spectrum (radio waves, microwaves,	I I I I I I I I I I I I I I I I I I I	
		infrared, visible, ultraviolet. X-rays. Gamma rays),		
		Applications of EM Waves.		



Part Test - 9 Class - 12	22-02-2024	Ray Optics and Optical Instruments Reflection of light, spherical minors, mirror formula. Refraction of light at plane and spherical surfaces, thin lens formula and lens maker formula. Total internal reflection and its applications. Magnification. Power of a Lens. Combination of thin lenses in contact. Refraction of light through a prism. Microscope and Astronomical Telescope (reflecting and refracting) and their magnifying powers. Wave Optics wavefront and Huygens' principle. Laws of reflection and refraction using Huygens principle. Interference, Young's double-slit experiment and expression for fringe width, coherent sources, and sustained interference of light. Diffraction due to a single slit, width of central maximum. Polarization, plane-polarized light: Brewster's law, uses of plane-polarized light and Polaroid.	Amines General methods of preparation. Properties, reactions, and uses. Amines: Nomenclature, classification structure, basic character, and identification of primary, secondary, and tertiary amines and their basic character. Diazonium Salts: Importance in synthetic organic chemistry. Biomolecules General introduction and importance of biomolecules. CARBOHYDRATES - Classification; aldoses and ketoses: monosaccharides (glucose and fructose) and constituent monosaccharides of oligosaccharides (sucrose, lactose, and maltose). PROTEINS - Elementary Idea of α-amino acids, peptide bond, polypeptides. Proteins: primary, secondary, tertiary, and quaternary structure (qualitative idea only), denaturation of proteins, enzymes. VITAMINS - Classification and functions. NUCLEIC ACIDS - Chemical constitution of DNA and RNA. Biological functions of nucleic acids. Hormones (General introduction)	Biotechnology Principles & Processes Principles and process of Biotechnology Genetic engineering (Recombinant DNA technology), Biotechnology And it's Applications Application of Biotechnology in health and agriculture: Human insulin and vaccine production, gene therapy: Genetically modified Organisms-Bt crops; Transgenic Animals: Biosafety issues-Biopiracy and patents.
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Part Test - 10 Class - 12	Dual Nature of Matter and Radiation Dual nature of radiation. Photoelectric effect. Hertz and Lenard's observations; Einstein's photoelectric equation: particle nature of light. Matter waves-wave nature of particle, de Broglie relation. Atoms and Nuclei Alpha-particle scattering experiment; Rutherford's model of atom; Bohr model, energy levels' hydrogen spectrum. Composition and size of nucleus, atomic masses, Mass- energy relation, mass defect; binding energy per nucleon and its variation with mass number, nuclear fission, and fusion. Semiconductor Electronics: Materials, Devices and Simple Circuits Semiconductors, Semiconductor diode: I-V characteristics in forward and reverse bias; diode as a rectifier; I-V characteristics of LED. the photodiode, solar cell, and Zener diode; Zener diode as a voltage regulator Logic gates (OR, AND, NOT, NAND and NOR). EXPERIMENTAL SKILLS Familiarity with the basic approach and observations of the experiments and activities: 1. Vernier callipers - its use to measure the internal and external diameter and depth of a vessel. 2. Screw gauge-its use to determine thickness/diameter of thin sheet/wire. 3. Simple pendulum-dissipation of energy by plotting a graph between the square of amplitude and time. 4. Metre Scale - the mass of a given object by the principle of moments' s. 5. Young's modulus of elasticity of the material of a metallic wire' 6. Surface tension of water by capillary rise and effect of detergents 7. Coefficient of Viscosity of a given viscous liquid by measuring terminal velocity of a given spherical body. 8. Speed of sound in air at room temperature using a resonance tube.	Some p-Block Elements (Group 13 to 18) General Introduction: Electronic configuration and general trends in physical and chemical properties of elements across the periods and down the groups; unique behaviour of the first element in each group. The d & f · Block Elements Transition Elements General introduction, electronic configuration, occurrence and characteristics, general trends in properties of the first row transition elements - physical properties, ionization enthalpy, oxidation states, atomic radii, colour, catalytic behaviour, magnetic properties, complex formation, Interstitial compounds, alloy formation; Preparation, properties, and uses of K2Cr2O7, and KMnO4. Inner Transition Elements Lanthanoids- Electronic configuration, oxidation states, and lanthanoid contraction. Actinoids - Electronic configuration and oxidation state Coordination Compound Introduction to coordination compounds, Werner's theory, ligands, coordination number, denticity, chelation, IUPAC nomenclature of mononuclear co-ordination compounds, isomerism;Bonding-Valence bond approach and basic ideas of Crystal field theory, colour and magnetic properties, Importance of co-ordination compounds (in qualitative analysis, extraction of metals and in biological systems) Principles related to practical chemistry Detection of extra elements (Nitrogen, Sulphur, halogens) in organic compounds; Detection of the following functional groups; hydroxyl (alcoholic and phenolic), carbonyl (aldehyde and ketones) carboxyl, and amino groups in organic compounds. The chemistry involved in the preparation of the following: Inorganic compounds; Mohr's salt, potash alum. Organic compounds: Acetanilide, p-nitro acetanilide, aniline yellow, iodoform. The chemistry involved in the titrimetric exercises-Acids, bases and the use of indicators, oxalic- acid vs KMnO4 Mohr's salt vs KMnO4 Chemical principles involved in the qualitative salt analysis:	Organisms and Populations Organisms and environment Population interactions-mutualism, competition, predation, parasitism; Population attributes-growth, birth rate and death rate, age distribution. Ecosystem Patterns, components; productivity and decomposition: Energy flow; Pyramids of number, biomass, energy Biodiversity & Conservation Concept of Biodiversity: Patterns of Biodiversity; Importance of Biodiversity; Loss of Biodiversity, Biodiversity conservation; Hotspots, endangered organisms, extinction, Red Data Book, biosphere reserves. National parks and sanctuaries, Sacred Groves.
	8. Speed of sound in air at room temperature	Chemical principles involved in the qualitative salt analysis: + Cations - Pb2+, Cu2+, Al3+, Fe3+, Zn2+, Ni2+, Ca2+, Ba2+, Mg2+, NH4 Anions- CO2-, S2-, SO2-, NO3 , NO2 , Cl , Br , I (Insoluble salts	
	12. Resistance and figure of merit of a galvanometer	3 4	



by half deflection method. 13. The focal length	excluded). Chemical principles involved in the following experiments: 1. Enthalpy of solution of CuSO4 2. Enthalpy of neutralization of strong acid and strong base. 3. Preparation of lyophilic and lyophobic sols. 4. Kinetic study of the reaction of iodide ions with hydrogen peroxide at room temperature	
TA	GEE NEET OF	
	TARGET POINT	

U-180, 2nd Floor, Shakarpur, Near Laxmi Metro Station, Pillar No. 30, Vikas Marg, New Delhi-110092.Contact No. 9354794504



Major Test - 11	Sunday, 3 March 2024	Syllabus of Class – 11 Part Test – 1 to 5		
Major Test - 12	Sunday, 10 March 2024	Syllabus of Class – 12 Part Test – 6 to 10		
		TARGET POINT ABHIJAY - NEET Full Tests (Complete Class -11 and 12 Syllabus) - Total - 12 Tests		
NEET FT - 1	Sunday, 17 March 2024	NEET Full Syllabus Test - 1		
NEET FT - 2	Sunday, 24 March 2024	NEET Full Syllabus Test - 2		
NEET FT - 3	Sunday, 31 March 2024	NEET Full Syllabus Test - 3		
NEET FT - 4	Saturday, 6 April 2024	NEET Full Syllabus Test – 4		
NEET FT - 5	Friday, 12 April 2024	NEET Full Syllabus Test - 5		
NEET FT - 6	Monday, 15 April 2024	NEET Full Syllabus Test - 6		
NEET FT - 7	Friday, 19 April 2024	NEET Full Syllabus Test - 7		
NEET FT - 8	Monday, 22 April 2024	NEET Full Syllabus Test - 8		
NEET FT - 9	Thursday, 25 April 2024	NEET Full Syllabus Test - 9		
NEET FT - 10	Sunday, 28 April 2024	NEET Full Syllabus Test - 10		
NEET FT - 11	Wednesday, 1 May 2024	NEET Full Syllabus Test - 12		
NEET FT - 12	Friday, 3 May 2024	NEET Full Syllabus Test - 12		